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# SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

**COMMENTS:** 

SDG <u>06I-0482-01</u> SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete Partial

300 Area 334 Bldg







#### Cover Page

Report Identification Number:

06I-0482-01

Subcontract Number:

0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist:

Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number:

DCHM

SAF#: RC-001 / R33400 J452

Payroll#: 72947

Web Page: www.datachem.com

E-mail: lab@datachem.com

**Sample Information** 

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
01 Feb 2006	J113H8	06I03830	NMAM 7300M	G061601L	G WIPE
01 Feb 2006	J113H9	06I03831	NMAM 7300M	G061601L	G WIPE
01 Feb 2006	J113J0	06I03832	NMAM 7300M	G061601L	G WIPE
01 Feb 2006	J11394	06I03833	NMAM 7300M	G061601L	G WIPE

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Phone: (801) 266-7700

FAX: (801) 268-9992

Name: Joanna C. Sanchez

Title: Chemist

Date: February 10, 2006





### Case Narrative Page

Report Identification Number: 06I-0482-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R33400 J452

Payroll#: 72947

General Set Information: There are 4 samples in set 06I-0482-01, 4 samples in set 06I-0483-01, 4 samples in set 06I-0484-01, 4 samples in set 06I-0485-01, 4 samples in set 06I-0486-01, 4 samples in set 06I-0487-01, 11 samples in set 06I-0513-01 and 22 samples in set 06I-0514-01 which were analyzed for cadmium, lead and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of  $\pm -10\%$ .

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.08 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 2. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): None.

DataChem Laboratories, Inc. 960 West Levoy Drive Salt Lake City, Utah 84123-2547 Phone: (801) 266-7700

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#### Case Narrative Page

Laboratory Control Sample and Duplicate Analysis: Three Laboratory Control Samples (LCSs) and three Laboratory Control Sample Duplicates (LCSDs) were prepared and analyzed with the sample batch. The LCS results were within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCSs and the LCSDs were within the control limit of 20%.

Replicate Analysis: Six samples in this batch were replicated. The RPD between the samples and the replicates was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

**Sample Calculation:** The final results are calculated by the following equation:

Final result for aqueous samples ( $\mu$ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ( $\mu g/L$ )

B = Concentration factor from sample preparation

= Final Volume of Digestate (L) Sample

C = Dilution performed at time of analysis

Example Calculation:  $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$ 

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Miscellaneous Comments: None





### Report Page

Report Identification Number: 06I-0482-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R33400 J452

Payroll#: 72947

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sample		Cadmiun µg/sampl		Lead µg/sampl	e
J113H8	06103830	08 Feb 2006	< 0.01	U	<0.08	U	<2.	U
J113H9	06I03831	08 Feb 2006	< 0.01	U	<0.08	U	<2.	Ü
J113J0	06I03832	08 Feb 2006	< 0.01	U	< 0.08	U	<2.	U
J11394	06I03833	08 Feb 2006	< 0.01	U	< 0.08	U	<2.	U
	Limit of I	Detection (LOD)	0.	01	0.	.08		2.
R	equired Detecti	on Limit (RDL)						

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.

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### QC Summary Page

Report Identification Number: 06I-0482-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 / R33400 J452

Payroll#: 72947

Batch ID: G061601L

	QC				Parent		Percent	Relative Percent
QC Sample ID	Туре	Analyte	Units	Result	Result	Target	Rec.	Diff.
BL-241024-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
BL-241024-1	MB	Cadmium	μg/sample	ND	NA	NA	NA	NA
BL-241024-1	MB	Lead	μg/sample	ND	NA	NA	NA	NA
QC-241024-1	LCS	Beryllium	μg/sample	11.3	NA	10.0	113.	NA
QC-241024-1	LCS	Cadmium	μg/sample	33.5	NA	30.0	112.	NA
QC-241024-1	LCS	Lead	μg/sample	108.	NA	100.	108.	NA
QD-241024-1	LCSD	Beryllium	μg/sample	11.2	11.3	10.0	112.	0.312
QD-241024-1	LCSD	Cadmium	μg/sample	33.2	33.5	30.0	111.	0.699
QD-241024-1	LCSD	Lead	μg/sample	106.	108.	100.	106.	1.81

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) \* 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) \* 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) \* 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) \* 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) \* 100

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# COC Page

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Phone: (801) 266-7700 FAX: (801) 268-9992



# **COC** Page

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